

8th Grade Science 1st Semester Exam Study Guide

SCIENTIFIC METHOD

1. Why is it important for scientists to be skeptical? If a scientist is skeptical of the results of an experiment, what should he usually do?

Skepticism is one of the most valuable tools in science. Continual questioning of ideas and results is a means of overturning long-held assumptions and uncovering new ideas. A skeptic in science will continually review the credibility of a scientific result or idea.

2. What makes an experiment valid?

When the results give validity to the question (hypothesis) that is being asked or tested.

3. What is the difference between qualitative and quantitative data?

Qualitative Data is used to describe something using your 5 senses. Quantitative Data is when you describe something using numbers.

EARTH SCIENCE

4. What are the 4 layers of the Earth?

Inner core, outer core, mantle and crust

5. What are the two types of crust? What types of rock are they made of? Which type is more dense?

Continental – granite and Oceanic – basalt, oceanic is more dense

6. Which layer of the Earth is made of the crust plus the upper mantle (this layer is rigid and brittle like a jolly rancher)?

Lithosphere

7. Which layer of the Earth is plastic and flowing (like silly putty)?

Asthenosphere

8. Which layer (asthenosphere or lithosphere) is broken into large pieces called plates?

Lithosphere

9. Which layer (asthenosphere or lithosphere) carries the plates?

Asthenosphere

10. What process causes the tectonic plates to move?

Convection currents

11. What are the three types of plate boundaries? Describe how the plates move at each (toward each other, away from each other, or slide past each other).

Convergent – Plates come together/collide, Divergent – plates move away from each other/divide, Transform – plates slide past each other/shear

12. Describe what happens when the following plates collide:

- a. Continental crust collides with continental crust – mountains
- b. Continental crust collides with oceanic crust – subduction zone, oceanic trench and volcanoes, rift valleys
- c. Oceanic crust collides with oceanic crust - volcanoes

13. Where are ALMOST all volcanoes formed?

Volcanoes are most commonly found at subduction zone boundaries. This is where the thinner oceanic plates get pulled under the thicker continental plates. As the plates go deeper, they melt and form pockets of magma which can cause mountains to be built and as the hot magma rises, it erupts out of volcanoes.

14. What is a hot-spot volcano?

This is an extra hot plume of molten rock which causes the earth's crust to thin allowing molten rock to escape onto the surface. The movement of the earth's tectonic plates means that volcanoes form a trail along the earth's surface.

15. What occurs when too much stress builds up at a plate boundary and the rock finally breaks?

Earthquake

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E Durkheim



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1. Understanding the eBook 8th Grade Science Midterm Study Guide Mrayton
 - The Rise of Digital Reading 8th Grade Science Midterm Study Guide Mrayton
 - Advantages of eBooks Over Traditional Books
2. Identifying 8th Grade Science Midterm Study Guide Mrayton
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 8th Grade Science Midterm Study Guide Mrayton
 - User-Friendly Interface
4. Exploring eBook Recommendations from 8th Grade Science Midterm Study Guide Mrayton
 - Personalized Recommendations
 - 8th Grade Science Midterm Study Guide Mrayton User Reviews and Ratings
 - 8th Grade Science Midterm Study Guide Mrayton and Bestseller Lists
5. Accessing 8th Grade Science Midterm Study Guide Mrayton Free and Paid eBooks
 - 8th Grade Science Midterm Study Guide Mrayton Public Domain eBooks
 - 8th Grade Science Midterm Study Guide Mrayton eBook Subscription Services
 - 8th Grade Science Midterm Study Guide Mrayton Budget-Friendly Options
6. Navigating 8th Grade Science Midterm Study Guide Mrayton eBook Formats

- ePub, PDF, MOBI, and More
 - 8th Grade Science Midterm Study Guide Mrayton Compatibility with Devices
 - 8th Grade Science Midterm Study Guide Mrayton Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 8th Grade Science Midterm Study Guide Mrayton
 - Highlighting and Note-Taking 8th Grade Science Midterm Study Guide Mrayton
 - Interactive Elements 8th Grade Science Midterm Study Guide Mrayton
 8. Staying Engaged with 8th Grade Science Midterm Study Guide Mrayton
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 8th Grade Science Midterm Study Guide Mrayton
 9. Balancing eBooks and Physical Books 8th Grade Science Midterm Study Guide Mrayton
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 8th Grade Science Midterm Study Guide Mrayton
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine 8th Grade Science Midterm Study Guide Mrayton
 - Setting Reading Goals 8th Grade Science Midterm Study Guide Mrayton
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of 8th Grade Science Midterm Study Guide Mrayton
 - Fact-Checking eBook Content of 8th Grade Science Midterm Study Guide Mrayton
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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